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1 [Hybrid retrieval from the unified web](#)
[Trivikram Immaneni, Krishnaprasad Thirunarayanan](#)
 March 2007 [SAC '07: Proceedings of the 2007 ACM symposium on Applied computing](#)
Publisher: ACM
 Full text available: [PDF \(239.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 94, Citation Count: 0

The goal of Semantic Web initiative is to make the semantics of Web content accessible to machines. The Semantic Web has been evolving into a web of data separate from the existing HTML web. Our work focuses on establishing and exploiting connections ...

2 [Device-aware desktop web page transformation for rendering on handhelds](#)
[A. Artaill, Mackram Raydan](#)
 November 2005 [Personal and Ubiquitous Computing](#), Volume 9 Issue 6
Publisher: Springer-Verlag
 Full text available: [PDF \(752.77 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 88, Citation Count: 1

This paper illustrates a new approach to automatic re-authoring of web pages for rendering on small-screen devices. The approach is based on automatic detection of the device type and screen size from the HTTP request header to render a desktop web page ...

Keywords: Context awareness, Mobile device types, Small screen devices, Transcoding, Web browsing, Web page rendering, Wireless devices

3 Mobile web: web manipulation for small displays using multi-level hierarchy.

 **page segmentation**

Aditya Gupta, Anuj Kumar, Mayank, V. N. Tripathi, S. Tapaswi

September 2007 **Mobility '07: Proceedings of the 4th international conference on mobile technology, applications, and systems and the 1st international symposium on Computer human interaction in mobile technology**

Publisher: ACM

Full text available:  [Pdf](#) (341.20 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index](#), [terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 84, Citation Count: 0

Mobile devices have made the world a small place. They are also being used widely, to access the Web. However, because most available web pages are designed for desktop PC in mind, it is inconvenient to browse these large web pages on a mobile device ...

Keywords: DOM, TOC, multi level hierarchy, proxy, small displays, web browsing, web page manipulation

4 An XForms based solution for adaptable documents editing

 Istvan Beszteri, Petri Vuorimaa

March 2005 **SAC '05: Proceedings of the 2005 ACM symposium on Applied computing**

Publisher: ACM

Full text available:  [Pdf](#) (538.47 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index](#), [terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 38, Citation Count: 0

The diversity of Internet enabled terminals is increasing continuously. Layout adaptation is becoming a crucial issue for the content providers. They have to support different client devices with minimal effort. This paper presents a document editing ...

Keywords: Extensible Markup Language (XML), X-Smiles, XForms, XFrames, XML database, XQuery, XUpdate

5 Evaluating web accessibility for specific mobile devices

 Markel Vigo, Amaia Aizpurua, Myriam Arrue, Julio Abascal

April 2008 **W4A '08: Proceedings of the 2008 international cross-disciplinary conference on Web accessibility (W4A)**

Publisher: ACM

Additional Information: [full citation](#),

Full text available:  [HML](#) (392.57 KB),  [Pdf](#) (331.01 KB)

[abstract](#), [references](#), [index](#), [terms](#)

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 187, Citation Count: 0

This paper presents a tool for evaluating web accessibility for mobile devices regardless their software, hardware or user agent characteristics. Taking the mobileOK Basic tests by the W3C as a basis, these tests are extended so that device characteristics ...

Keywords: device-tailored evaluations, mobile web, web accessibility

6 [Evaluating interfaces for intelligent mobile search](#)

 [Karen Church, Barry Smyth, Mark T. Keane](#)

May 2006 [W4A: Proceedings of the 2006 international cross-disciplinary workshop on Web accessibility \(W4A\): Building the mobile web: rediscovering accessibility?](#)

Publisher: ACM

Full text available:  [pdf \(498.86 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 236, Citation Count: 1

Recent developments in the mobile phone market have led to a significant increase in the number of users accessing the Mobile Internet. Handsets have been improved to support a diverse range of content types (text, graphics, audio, video etc.), infrastructure ...

Keywords: mobile interfaces, mobile internet, mobile search, mobile web, search interfaces, user evaluation

7 [Function-based object model towards website adaptation](#)

 [Jinlin Chen, Baoyao Zhou, Jin Shi, Hongjiang Zhang, Qiu Fengwu](#)

April 2001 [WWW '01: Proceedings of the 10th international conference on World Wide Web](#)

Publisher: ACM

Full text available:  [pdf \(615.57 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 92, Citation Count: 25

Keywords: HTML/WML conversion, content adaptation, content function, website understanding

8 [m-links: An infrastructure for very small Internet devices](#)

 [Bill N. Schilit, Jonathan Trevor, David M. Hilbert, Tzu Khiau Koh](#)

July 2001 [MobiCom '01: Proceedings of the 7th annual international conference on Mobile computing and networking](#)

Publisher: ACM

Full text available:  [pdf \(680.78 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 53, Citation Count: 7

In this paper we describe the Mobile Link (m-Links) infrastructure for utilizing existing World Wide Web content and services on wireless phones and other very small Internet terminals. Very small devices, typically with 3-20 lines of text, provide portability ...

Keywords: middleware, proxy, web phones, wireless, wireless web

9 [Detecting web page structure for adaptive viewing on small form factor devices](#)



[Yu Chen, Wei-Ying Ma, Hong-Jiang Zhang](#)

May 2003 [WWW '03: Proceedings of the 12th international conference on World Wide Web](#)

Publisher: ACM

Full text available: [Pdf](#) (3.64 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 34, Downloads (12 Months): 202, Citation Count: 46

Mobile devices have already been widely used to access the Web. However, because most available web pages are designed for desktop PC in mind, it is inconvenient to browse these large web pages on a mobile device with a small screen. In this paper, we ...

Keywords: adaptive hypermedia, content adaptation, mobile browser

10 [Highlight: a system for creating and deploying mobile web applications](#)



[Jeffrey Nichols, Zhigang Hua, John Barton](#)

October 2008 [UIST '08: Proceedings of the 21st annual ACM symposium on User interface software and technology](#)

Publisher: ACM

Full text available: [Pdf](#) (876.90 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 103, Citation Count: 0

We present a new server-side architecture that enables rapid prototyping and deployment of mobile web applications created from existing web sites. Key to this architecture is a remote control metaphor in which the mobile device controls a fully functional ...

Keywords: dynamic html, highlight, javascript, mobile web, proxy browser, proxy server

11 [Web content adaptation for mobile handheld devices](#)



Dongsong Zhang

February 2007 Communications of the ACM , Volume 50 Issue 2

Publisher: ACM

Additional Information: [full citation](#),

Full text available: [Html](#) (25.54 KB), [Pdf](#) (537.56 KB)

[abstract](#),
[references](#), [index](#)
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Bibliometrics: Downloads (6 Weeks): 55, Downloads (12 Months): 527, Citation Count: 1

Creative technologies can help overcome the limitations of mobile handheld devices while maximizing their strengths.

12 [Mobilization by demonstration: using traces to re-author existing web sites](#)



Jeffrey Nichols, Tessa Lau

January 2008 IUI '08: Proceedings of the 13th international conference on Intelligent user interfaces

Publisher: ACM

Full text available: [Pdf](#) (809.74 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index](#),
[terms](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 84, Citation Count: 0

Today's web pages provide many useful features, but unfortunately nearly all are designed first and foremost for the desktop form factor. At the same time, the number of mobile devices with different form factors and unique input and output facilities ...

Keywords: CoScripter, Koala, end-user programming, highlight, mobile web, programming by demonstration, re-authoring

13 [Linking in context](#)



Samhaa R. El-Beltagy, Wendy Hall, David De Roure, Leslie Carr

September 2001 HYPERTEXT '01: Proceedings of the 12th ACM conference on Hypertext and Hypermedia

Publisher: ACM

Full text available: [Pdf](#) (367.88 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index](#) [terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 40, Citation Count: 17

This paper explores the idea of dynamically adding multi-destination links to Web pages, based on the context of the pages and users, as a way of assisting Web users in their information finding and navigation activities. The work does not make any preconceived ...

Keywords: context, dynamic linking, information finding, link generation, links, navigation assistance, open hypermedia, software agents

14 Use of RSS feeds for content adaptation in mobile web browsing

 Alexander Blekas, John Garofalakis, Vasilios Stefanis

May 2006 W4A: Proceedings of the 2006 international cross-disciplinary workshop on Web accessibility (W4A): Building the mobile web: rediscovering accessibility?

Publisher: ACM

Full text available:  Pdⁱ (772.25 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 228, Citation Count: 0

While mobile phones are becoming more popular, wireless communication vendors and device manufacturers are seeking new applications for their products. Access to the large corpus of Internet information is a very prominent field, however the technical ...

Keywords: RSS feeds, content adaptation, mobile browsing, mobile devices, web browsing

15 Summary thumbnails: readable overviews for small screen web browsers

 Heidi Lam, Patrick Baudisch

April 2005 CHI '05: Proceedings of the SIGCHI conference on Human factors in computing systems

Publisher: ACM

Full text available:  Pdⁱ (2.18 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 154, Citation Count: 19

In order to display web pages designed for desktop-sized monitors, some small-screen web browsers provide single-column or thumbnail views. Both have limitations. Single-column views affect page layouts and require users to scroll significantly more. ...

Keywords: PDA, overview, semantic zoomingblutwurst, small screen device, thumbnail view, web browsing

16 Automatically adapting web sites for mobile access through logical

 descriptions and dynamic analysis of interaction resources

 Fabio Paternò, Carmen Santoro, Antonio Scorcia

May 2008 AVI '08: Proceedings of the working conference on Advanced visual interfaces

Publisher: ACM

Full text available:  Pdⁱ (1.31 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 64, Citation Count: 0

While several solutions for desktop user interface adaptation for mobile access have been proposed, there is still a lack of solutions able to automatically generate mobile versions taking semantic aspects into account. In this paper, we propose a general ...

Keywords: mobile interfaces, model-based design, multi-device web interfaces, user interface adaptation

17 [Browsing on small screens: recasting web-page segmentation into an efficient machine learning framework](#)

 [Shumeet Baluja](#)

May 2006 [WWW '06: Proceedings of the 15th international conference on World Wide Web](#)

Publisher: ACM

Full text available:  [PDF \(2.90 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 142, Citation Count: 8

Fitting enough information from webpages to make browsing on small screens compelling is a challenging task. One approach is to present the user with a thumbnail image of the full web page and allow the user to simply press a single key to zoom into ...

Keywords: browser, machine learning, mobile browsing, mobile devices, small screen, thumbnail browsing, web page segmentation

18 [MORE for less: model recovery from visual interfaces for multi-device application design](#)

 [Yves Gaeremynck, Lawrence D. Bergman, Tessa Lau](#)

January 2003 [IUI '03: Proceedings of the 8th international conference on Intelligent user interfaces](#)

Publisher: ACM

Full text available:  [PDF \(307.44 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 26, Citation Count: 4

An emerging approach to multi-device application development requires developers to build an abstract semantic model that is translated into specific implementations for web browsers, PDAs, voice systems and other user interfaces. Specifying abstract ...

Keywords: model recovery, multi-device application development, reverse engineering, rule systems, semantic modeling

19 [Gooey interfaces: an approach for rapidly repurposing digital content](#)
 [Les Nelson, Elizabeth F. Churchill, Laurent Denoue, Jonathan Helfman, Paul Murphy](#)
April 2004 [CHI '04: CHI '04 extended abstracts on Human factors in computing systems](#)
Publisher: ACM
Full text available:  [Pdf \(314.03 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 24, Citation Count: 2

With the acceleration of technological development we are reaching the point where our systems and their user interfaces become to some degree outdated 'legacy systems' as soon as they are released. This raises the question of how can we maintain, extend, ...

20 [Collapse-to-zoom: viewing web pages on small screen devices by interactively removing irrelevant content](#)
 [Patrick Baudisch, Xing Xie, Chong Wang, Wei-Ying Ma](#)
October 2004 [UIST '04: Proceedings of the 17th annual ACM symposium on User interface software and technology](#)
Publisher: ACM
Full text available:  [Pdf \(702.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 136, Citation Count: 15

Overview visualizations for small-screen web browsers were designed to provide users with visual context and to allow them to rapidly zoom in on tiles of relevant content. Given that content in the overview is reduced, however, users are often unable ...

Keywords: PDA, collapse-to-zoom, gesture, marquee menu, overview, pen, small screen device, web browsing

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